

### Product type designation

**Power Connecting Cable M12-90/M12-90**  
 POWER CONNECTING CABLE M12-90/M12-90 FOR POWER  
 SUPPLY OF ET200, PREASSEMBLED CABLE W/ M12 CONNECT.  
 AND M12 FEM. CONN., A CODED, 4 WIRE 3 M



Figure similar

Cable designation	LI9YH-Y 4x0.75
Wire length	3 m
<b>Electrical data</b>	
Operating voltage / RMS value	300 V
Conductor cross section / of the power wire	0.75 mm <sup>2</sup>
<b>Mechanical data</b>	
Number of electrical cores	4
Type of electrical connection	M12-180
Outer diameter	
• of inner conductor	1.1 mm
• of the wire insulation	1.7 mm
• of cable sheath	5.7 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Design of stranding element	Pairs
Conductor class	Cl.5

Material	
<ul style="list-style-type: none"> <li>• of the conductor</li> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>	<p>CU, blank</p> <p>PP</p> <p>PVC</p>
Marking / of cores	Color
Color	
<ul style="list-style-type: none"> <li>• of the power wire insulation</li> <li>• of cable sheath</li> </ul>	<p>brown / white / blue / black</p> <p>gray</p>
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	<p>57 mm</p> <p>57 mm</p>
Tensile load / maximum	15 N
Weight per length	54 kg/km

<b>connector</b>	
Type of plug interlock	screwed
Connector coding	M12
Connector coding / of the M12 circular connector	A coded

<b>Permitted ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> <li>• Note</li> </ul>	<p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>80 °C</p> <p>With moving applications, the permissible operating temperature range is -5 to +80 degrees Celsius</p>
Burning behavior	Flame-resistant acc. to UL 758 (CSA FT 1)
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	<p>Conditional resistance</p> <p>Conditional resistance</p>
Radiological resistance / to UV radiation	not resistant
Protection class IP	IP65 / 67

<b>Product properties, functions, components / general</b>	
Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	<p>No</p> <p>Yes</p>

<b>Standards, specifications, approvals</b>	
Certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes

<b>Further Information / Internet Links</b>	
Internet-Link	

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

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